KRU, I.G.; MEDRISH, Ye.A.

Hanagement of pregnancy, labor and the postnatal period in patients with rhounatic heart defects. Zdrav.Belor. 5 no.8:33-35 Ag 159. (HIRA 12:10)

1. Iz terapevticheskogo otdeleniya Brestskoy oblastnoy bol'nitsy (glavnyy vrach V.G.Tishchenko) i rodil'nogo otdeleniya Brestskogo roddora (glavnyy vrach I.F.Koroleva).

(RHEUMLTIC HEART DISEASE) (LABOR (OBSTETRICS))

Method for dispensary treatment of therapeutic patients. Zdrav. Bel. 7 no.5:41-42 My '61. (MIRA 14:6) 1. Glavnyy terapevt Brestskogo oblzdravotdela. (BREST_DISPENSARIES)

REJASHVILI, G. D.

Bacterial knot of oleander caused by Pseudomonas savastanoi
v. nerii Smith. Zashch. rast. ot vred. i bol. 5 no.10:44-45
v. nerii Smith. Zashch. rast. ot vred. i MIRA 16:1)
0 '60.

1. Starshiy fitopatolog Abkhasskoy karantinnoy laboratorii.

TOTAL PROGRAMMENT OF THE PROGRAM

(Oleander-Diseases and pests) (Pseudomonas)

KRUBAN, K., prof., inz., dr., Dr. Sc.

"Reinforced concrete constructions" by K. V. Sachnovskij. Reviewed by

K. Hruban.

Inz stavby 10 no. 2:77-78 F 162.

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710011-5

EXECUTION A.A.: XEUBERG, Yu.K.

[Illustrated school guide to the classification of plants; a manual for students in secondary schools] Illiustrirovannyi nanual for students in secondary schools] Illiustrirovannyi shooling opredelitel rastenii. Posobie dlia uchashchikhsia shooling opredelitel rastenii. Posobie dlia uchashchikhsia shooling rad. B.K. Shishkina. Iad. 3. ispr. 1 dop. sredningrad. Gos. ucheb.-padagog. izd-vo Ministerstva Leningrad. Gos. ucheb.-padagog. izd-vo Ministerstva prosveshcheniia REFER, Leningradskoe otd-nie, 1951.

[MIRA 10:4)

290 p. (Botany--Glassification)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710011-5

2. 中国实际的组织自由规则和原,他国际政府和证据和实验的定。上面实际实现。	2,40,845,2
KRUBIRG, YU. K.	
and parks." A. A.	
torthook on phenology ("Phenological observable No. 3, 1952.	
Useful textbook on phenology ("Phenological observations in guident by Yu. K. Kruberg.) Est. v Shkole No. 3, 1952. Golovach. Reviewed by Yu. K. Kruberg.)	
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9. Monthly List of Russian Accessions, Library of Congress, September 19532 Uncl.	•
Dugsian Accessions, Library of Congress,	
9. Monthly List of Muse 12.	
HARMENDE PARTIE	- 10 V - 7 *
	NY INST

- 1. YU. K. KAUBEAG, A. A. BYSTACV
- 2. USSR (600)
- 4. Botany
- 7. Guide to plants ("Illustrated guide to plans for schools.". deviewed by Fref. V. V. Alpatov). Priroda 42 no. 1. 1953.

9. Monthly List of Russian Accessions, Library of Congress, ____pril __1953, Uncl.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710011-5"

GORDEYEVA, Tamara Nikolayevna; ZAVALISHINA, Sofiya Fedorovna; KRUBERG, Yuliy Karlovich; PIS'YAUKOVA, Vera Vasil'yevna; STRKKOVA, Ul'ga Stepanovna; GURDZHIYEVA, A.M., tekhnicheskiy redaktor

[Summer field work in botany; manual for pedagogical institutes]
Letniaia polevaia praktika po botanike; posobie dlia pedagogicheskikh institutov. Leningrad. Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, Leningradskoe otd-nie, 1954. 285 p.

(Botany--Field work)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710011-5"

AND THE PROPERTY OF THE PROPER

Conservations on the development of vegetation in the reservoir of the Vyritsa Electric Power Plant. Uch. zap. Ped. inst. Gerts. 178:49-61 '59. (MIRA 14:7) (Vyritsa Reservoir--Aquatic plants)

KRUC, S., dr; KOWALSKI, T., dr.

Organization of medical teams for rural antituberculous campaign; remarks in discussion. Zdrowie pub., Warss.no.3:234-236 May-June 155.

(TUBERCULOSIS, prevention and control
in Poland, med.teams for rural campaign)
(EURAL CONDITIONS
in Poland, med.teams for antituberculosis campaign)

BIJKO, Plandia, EMIC, Standalawa; MICHALOWICZ, Roman

ileural chylothorax in a child with lymph node tuberculosis. Pediat. Pol. 39 no.8:961-964 Ag *64

1. Z K'iniki Terapli Chorob Dzieci Akademii Medycznej w Warszaw e(Kierownik: prof. dr. med. M.H.Zapasnik-Kobierska).

SUNTSOV, A.G., dotsent; KRUCH, A.D., subordinator.

X-ray diagnosis of osteochondrosis of the corpus vertebrae (Calvé's disease) Vest.rent. i rad. no.3:73-77 Hy-Je '55. (MLRA 8:10)

1. Is kafedry propedevtiki vnutrennikh bolesney (sav.prof. Kh.I. Vaynshteyn) Chelyabinskogo meditsinskogo instituta (dir.prof. G.D. Obrastsov)

(SPONDYLITIS, vertebra plana, x-ray diag.)

KRAUSKOPF, Jaroslav; MAREK, Jan KRUCH, Rudolf

2 Cases of photosensitisation after aureomykoin. Cesk.derm.34
no.6:383-385 D '60.

1. Kozni oddeleni OUNZ v Chebu. Vojensky lazensky ustav ve
Frantiskovych Laznich.

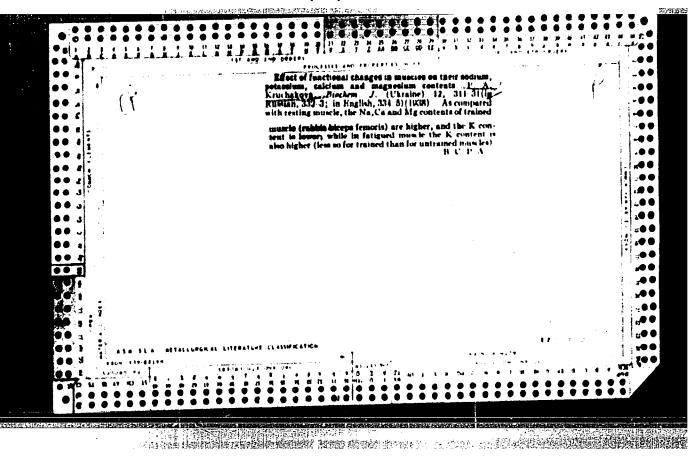
(CHLORTETRACYCLINE toxicol)

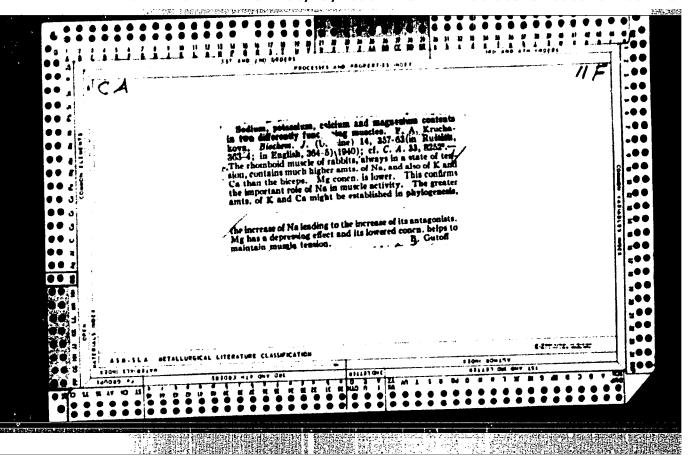
(DERMATITIS MEDICAMENTOSA)

(PHOTOSENSITIZATION)

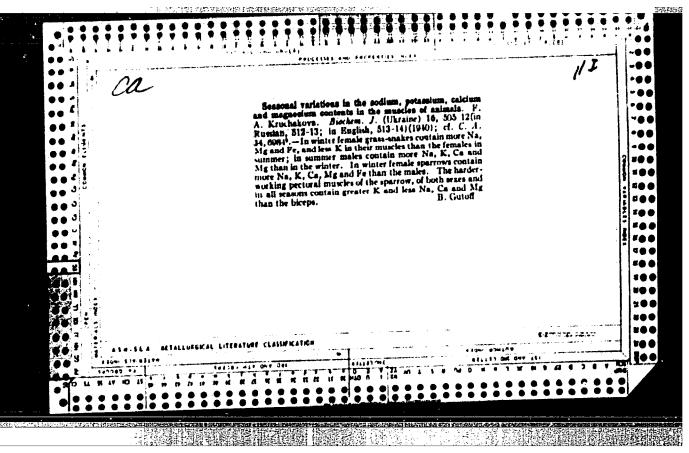
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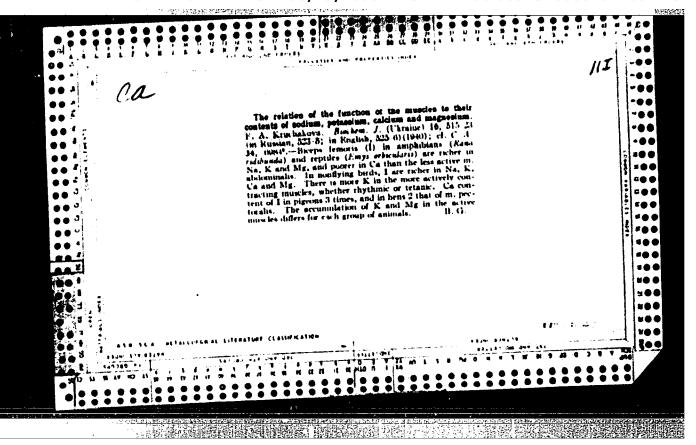




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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710011-5



The stollers, potestion, calcium, magnesium, and iron content of fals muscles and an invertebrate of the Black Sea. P. A. Kinchbarra (Acad. Sci. dkr. 35.R.), kiev. P. 1952. No. 12, 111-15. —The following fid were stolled: Mulles Hodian poditus, Teacharus trachurus, Ceculibrus quisquemaculatus, Sorbeana paran, U-associepus reader, following fid were stolled: Mulles Book muscle (11) the range was Na 23.8-9. for mosts back muscle (11) the range was Na 23.9-5. for mosts back muscle (11) the range was Na 43.8-5.6. k 43.6-6.0.3. for most paran muscle (11) the range was Na 43.3-8.6. for 36.7. and Mg 20.1-09.6. For most jum muscle (11) the range was Na 43.3-8.6. for 23.6-6.0. for 36.7. and Mg 20.1-09.6. For most jum muscle (11) the range was Na 43.3-8.6. for 23.6-6. for 25.7. The mosture content varied from 75.6 no 88.0%. In dry muscle the Fe varied from 6.02. for 36.0 no 8.0%. In dry muscle the Fe varied from 6.02. for 36.0 no 8.0%. It is concluded that II which contracts more than I has more Na and K. Not muscle difference between species except III of predatory fish contain more Na and K. For the muscle Mylint galloprosincialis, the contracting muscle has more Ca (40.1-29.5 mg. %) and Mg (46.3-3-29.0), and less Na (43.15-137.0) and K (27.0) 305.0) than the relayed muscle.

The alkali, alkaline earth metal, and iron content of the muscles of some Black Sea fishes and invertebrates. Trudy Karad.biol.sta.no.12: 111-115 '52. (BLACK SEA--MARINE FAURA) (HETALS IN THE BODT) (MUSCLE)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710011-5"

VAYSMAN, S.B., KRUCHAKOVA, F.A.

Mothods for obtaining a preparation of an iron-ascorbic acid complex. Vitaminy no.1:158-165 153 (MIRA 11:6)

1. Biokhimicheskaya laboratoriya Mauchno-issledovatel skogo instituta pitaniya Ministerstva zdravookhraneniya USSR i Kafedra biokhimii Kiyevskogo meditsinskogo stomatologicheskogo instituta, Kiyev.

(ASCORBIC ACID)
(IRON SULFATE). .

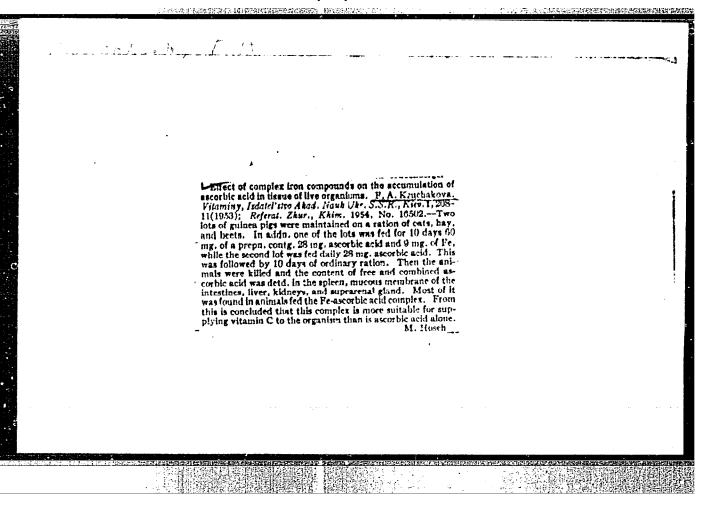
KRUCHAKOVA, F.A.

Effect of complex iron compounds on the accumulation of ascorbic acid in animal tissues. Vitaminy no.1:208-211 153 (MIRA 11:7)

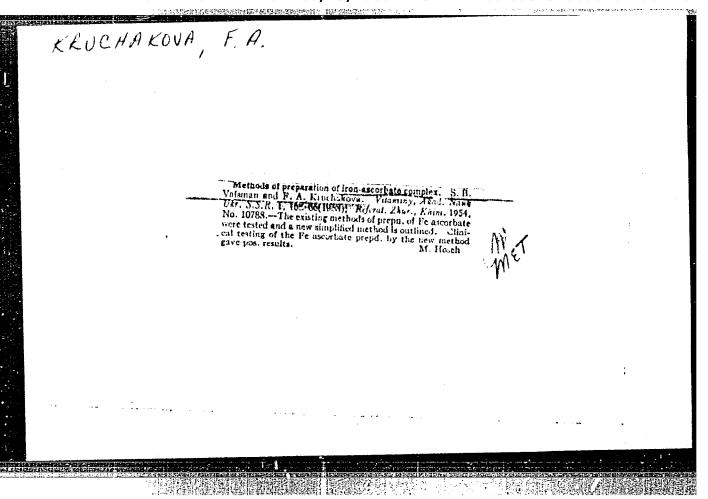
1. Biokhimicheskaya laboratoriya Nauchno-issledovatel'skogo instituta pitaniya Ministerstva zdravookhraneniya USSE, Kiyev. (IRON IN THE BODY) (ASCORBIC ACID)

"APPROVED FOR RELEASE: 06/19/2000

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subbage place on the actumolation of secorbic arid in tissues of animal organisms. F. A. Kruclakova (Review Bucklain, Eliza D., 18, 18, 18), and the contrast of contrast of contrast of animal means internation into the organism of the cults and a partia and (I) increases the contrast of contrast of the cults and after I in the tissue to an exact as it than does the introduction of I alone. Such contrast is further intra and it appl, animals following time about or tration of a south the prepar, of ferrospacethe and (II) and the [ct] of the production in production of a contrast of production of the production of the

KRUCHAKOVA, F. A.

"The Effect of Ascorbic Acid on the Rate of the Inclusion of Radioactive Iron (Fe⁵⁹) Into the Fraction of Mineral Iron of Guinea Pig Tissues," by F. A. Kruchakova, Opyt Primeneniya Radioaktivnykh Izotopov v Meditsine (Research in Using Radioactive Isotopes in Medicine), Kiev, Gosmedizdat Ukrainian SSR, 1955, pp 51-60 (from Referativnyy Zhurnal -- Khimiya, Biologicheskaya Khimiya, No 15, 10 Aug 56, Abstract No 14423

"Guinea pigs were given Fe⁵⁹ perorally in the form of either Fe⁵⁹Cl₃ or a complex of Fe⁵⁹ with ascorbic acid. More Fe⁵⁹ was detected in the organs of both healthy and scorbutic guinea pigs when administered in the complex form. Administration of Fe⁵⁹ complex with vitamin C caused the rate of renewal of the mineral fraction of iron in the "gelatopoietic" tissues of scorbutic guinea pigs to be significantly greater than in healthy animals. This difference was not detected after the administration of Fe⁵⁹Cl₃. The rate of the inclusion of Fe⁵⁹ into the tissues of the liver, intestinal mucosa, and suprarenals was two to four times higher in the avitaminic rats than in the healthy ones regardless in which form the Fe⁵⁹ was administered."

Sum 1239

Country: USSR

Category: Human and Ani al Physiology. Metabolism.

Water-salt Metabolism.

Abs Jour: RZhBiol., No 19, 1958, 88600

Author: Kruchakova, F....

Inst

The state of the s

Title :

: The Effect of the Protein Corponent of the Diet on

Iron Assimilation.

Orig Pub: Vopr. med. Edinti, 1957, 3, No 3, 187-189

Abstract: For several days prior to their sacrifice, rats were given Fe⁵⁹. The greatest rate of

rats were given Fe⁻². The greatest rate of inclusion of Fe⁵⁹ into the tissues of the animals was noted with diets containing 40% protein, the smallest with diets containing 5%. With diets containing casein, the rate of Fe⁵⁹.

Card : 1/2

T-9

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710011-5

. Country : USSR

Category: Human and Initial Physiology. Metabolism.

Water-salt Metabolism.

Abs Jour: RZhBiol., No 19, 1958, 88600

assimilation was 2-4 times greater than with diets containing the same ancunt of egg albumin. The difference in the effectiveness of casein and egg albumin as far as the assimilation of Fe⁵⁹

is concerned is explained by the difference in their

P content. -- N.G. Shaposhnikov.

Card : 2/2

KRUCHAKOVA, F.A. kendidet biologicheskikh nauk (Kiyev)

Biological properties of ferroascorbic acid. Vrach.delo no.8:873-875 Ag '57. (MLRA 10:8)

1. Laboratoriya biokhimii Ukrainskogo nauchno-issledovatel'skogo instituta ortopedii i travmatologii (IROM--THERAPEUTIG USB) (ASCORBIC ACID)

MRUCHAKOVA, F.A. Magnet of dietery protein components on iron assimilation [with summary in Anglish]. Vop.med.khim. 3 no.3:183-189 My-Je '57. 1. Biokhimicheskaya laboratoriya Ukreinskogo nauchno-issledovatel'-ekogo instituta pitaniya, Kiyev (IRON, metab. eff. of dietary proteins on uptake by body fluids & tissues in rats (Rus)) (PROTAINS, eff. dietary proteins, on iron uptake by body fluids & tissues in rats (Rus))

KROSHING , F. A.

USSR/Human and Animal Physiology - Metabolism.

A-5

Abs Jour

: Ref Zhur - Blol., No 4, 1958, 17973

三大学校的遗憾的意思。这一句

Author

: F.A., Kruchekova

Inst Title

: The Role of Ferro-Ascorbic Acid in Iron Metabolism in the

Animal Organism.

Orig Pub

: Ukr. blokhim. zh., 1957, 29, No 2, 145-151

Abstract

: In guinea pigs on an ordinary diet 1.5 to 5.7 mgf of ferroascorbic acid (a complex compound) and 3.1 to 5.0 mg % of
mineral iron were detected in the mucosa of the small intestine; in the spleen 6 mg/ and 11 mgf, respectively, were detected, and in the liver 2.5 to 4.5 mg/ and 3
to 4 mg/ respectively. Ferritin was not detected in the
tissues of the animals; it was found in the tissues only
after the animals were given Fe preparations. When the
guinea pigs were injected with a preparation of ferro-accorbic acid or FeCl3 labelled with Fe59, the rate at which

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710011-5

USSR/Human and Animal Physiology - Metabolism.

V-2

Abs Jour

: Ref Thur - Biol., No 4, 1958, 17973

Fe⁵⁹ appeared in tissue was 2 to 3 times greater in the animals which received the ferro-ascorbic acid than in those which received FeCl₃. It is suggested that Fe is absorbed by the tissues as ferro-ascorbic acid independently of the formation of ferritin.

Card 2/2

KRUCHAKOVA, F.A., kand.biol.nauk

Using a preparation of ferroascorbic acid in children's nutrition. Vop.okh. mat. i det. 3 no.5:49-52 S-0 '58 (MIRA 11:11)

1. Iz biokhimicheskoy laboratorii (zav. - prof. B.I. Gol'dahteyn)
Nauchno-issledovatel'skogo instituta pitaniya Ministerstva zdravookhraneniya USSR, Kieyev.

(CHILDREN-HUTRITION)

(ASCORBIC ACID)

KRUCHAKOVA, Y.A.

Rates of incorporation of radioactive iron (Fe59) into the nuclei and cytoplasm of normal and tumor tissues [with summary in English]. Vop.med.khim. 4 no.1:15-20 Ja-F'58 (MIRA 11:5)

1. Biokhimioheskaya laboratoriya Ukrainskogo nauchno-issledovateli skogo instituta, Kiyev.

iron opds. (Rus))

(IROE, metabolism
binding by nuclei & cytoplasm in normal tinsues &
tumor tissues, comparison (Rus))
(MHOPLASMS, experimental
tumor nuclei & cytoplasm uptake of various labeled

大臣司号 4. 巴尔 自身的现在分词的对称的联系的基础。随着现代

VEYNEROV, I.B.; KHICHAKOVA, F.A.; PODGAYETSKAYA, M.G.

Effect of various factors on the rate of uptake of radioactive sulfur (S-35) in the skin and wool of animals. Vest.derm.i ven. 34 no.8:11-14 160. (MIRA 13:11)

1. Iz kliniko-eksperimental noy laboratorii otdela tuberkulesa kozhi (zav. - prof. I.B. Veynerov) Ukrainskogo nauchno-issledo-vatel skogo instituta tuberkulesa imeni F.G. Ianovskogo (dir. - dotsent A.S. Mamolat).

(SKIN) (WOOL) (SULFUR METABOLISM)

VEYNEROV, I.B., prof.; KRUCHAKOVA, F.A., kand.biolog.nauk; PODGAYETSKAYA, M.G., kand.med.nauk

Treatment of alopecia seborrhoeica with vitamins. Vest.derm. i ven. no.8:51-54 '62. (MIRA 15:9)

1. Iz otdela kozimo-venerologicheskogo tuberkuleza (zav. - prof. I.B. Veynerov) Ukrainskogo nauchmo-issledovatel'skogo instituta tuberkuleza imeni F.G. Yanovskogo (dir. - dotsent I.S. Mamolat).

(BALDNESS) (VITAMIN THERAPY)

VEYNEROV, I.V.; KRUCHAKOVA, F.A.; PODGAYETSKAYA, M.G.

Content of some vitamins and 17-ketosteroids in the urine of seborrhea patients. Vop. med. khim. 8 no.51482-486 5-0*62 (MIRA 17:4)

1. Otdel kozimogo tuberkuleza Ukrainskogo naucimo-issledovateliskogo instituta tuberkuleza imeni F.G. Yanovskogo, Kiyev.

VEYNEROV, I.B.; KRUCHAKOVA, F.A.; PODGAYETSKAYA, M.G.

Riboflavine and 17-ketosteroid metabolism in patients with seborrhea. Vop. pit. 22 no.1:28-32 Ja-F*63 (MIRA 16:11)

1. Iz otdela kozhnogo tuberkuleza Ukrainskogo nauchno-issledovatel skogo instituta tuberkuleza imeni F.G.Yanovskogo, Kiyev.



VEYNEROV, I.B., prof.; KRUCHAKOVA, F.A., kand. biol. nauk; CHERKASSKAYA, Ye.I.

Vitamin metabolism and excretion of 17-ketosteroids in cutaneous tuberculosis treated with tubasid. Vest. derm. i ven. no.1: 22-28 165. (MIRA 18:10)

1. Klinika tuberkuleza kozhi Ukrainskogo nauchne-issledovatel'skogo instituta tuberkuleza i grudnoy khirurgii imeni Ynovskogo (dir.- dotsent A.S. Mamolat), Kiyev.

KRUCHAROVA, F.A.; VASIKO, C.P.

Effect of prolonged use of antimater'al drugs on the pantothenic acid metabolism in experimental tuberculosis in guinea pigs.

Frobl. tub. no.2:70-75 *65. (MIRA 18:12)

1. Ukrainskiy nauchno-isoledovateliskiy institut tuberkuleza i grudnov khirurgii imeni F.G.Yanovskogo (direktor - dotsent A.S.Mamolat), Kiyev.

PANFILOVA, I.A.; SENKEVICH, R.L.; KRUCHKOVICH, G.I., kand. fiz.-matem. nauk dots., red.

[Textbook for a course in higher mathematics] Uchebnoe posobie po kursu vysshei matematiki. Moskva, Vses. zaochnyi energ. in-t. Pt. 4. 1962. 138 p. (MIRA 19:1)

25303 S/081/61/000/016/006/040 B118/B101

15. 2650 (1160)

Freydenfel'd, E. Zh., Fritsberg, V. Ya., Kruchan, Ya. Ya.

TITLE:

Effect of addition of SiO2 on the properties of polycrystallin

BaTiO 3

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 16, 1961. A. Alert Met 166250 (Uch. zap. Rizhsk. politekhn. in-ta, 2, 1959, 115-127)

TEXT: Addition of SiO₂ to BaTiO₃ (I) causes a decrease of the parameters and the tetragonality of the elementary cell, irrespective of the method of addition. This is obviously related to the formation of a solid solution of the substitution type. Of the new phases, the compound BaTiSiO₅ is formed first of all. Addition of SiO₂ shifts the Curie point of I by

 $25-30^{\circ}\text{C}$ toward high temperatures, which also confirms the formation of a solid solution. Addition of SiO 2 lowers the dielectric constant and

changes the parameters of the dielectric hysteresis loop. The residual Card 1/2

28303 S/081/61/000/C16/006/040 B118/B101

Effect of addition of SiO2 ...

polarization is reduced while the coercive force is increased. If small amounts are added, the spontaneous polarization tends to increase, whereas it tends to decrease at high concentrations. [Abstracter's note: Complete translation.]

X

Card 2/2

24,7500 (1043,1160) 24,7800 (1144,1162) S/048/60/024/011/022/036 B006/B060

AUTHORS:

Fritsberg, V. Ya., Freydenfel'd, E. Zh., and Kruchan, Ya. Ya.

TITLE:

Dielectric Properties and Structure of Solid Solutions of the PhTiO3 7 SrTiO3 7 "Bi2/3TiO3" System

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 11, pp. 1387-1390

TEXT: This is the reproduction of a lecture delivered at the Third Conference on Ferroelectricity which took place in Moscow from January 25 to 30, 1960. The authors studied the transition of the PbTiO₃ - SrTiO₃ - Bi₂/3^{TiO}3" system from the typical seignettoelectric state into a state with relaxation polarization. The initial materials used for the preparation of the ceramic specimens were PbO, Bi₂O₃, TiO₂, and SrCO₃. The analyses of the specimens were accurate within 1.5% by weight. £ and tan & were measured by the usual methods in a wide frequency and temperature

Card 1/4

Dielectric Properties and Structure of Solid Solutions of the PbTiO₃ - SrTiO₃ - "Bi_{2/3}TiO₃"

S/048/60/024/011/022/036 B006/B060

System

range, the seignettoelectric properties were studied at 50 cps, the X-ray analyses were made with an X-ray diffractometer of the type YPC-50M (URS-50I). The determination of the lattice parameters by the counting technique was accurate within ±0.002 kX. Two sections were examined in the ternary system (Fig. 1), wherein the ratios of SrTiO₃ and PbTiO₃ were constantly equal to 7:3 (A) and 4:6 (B), while the "Bi_{2/3}TiO₃" concentration varied from one compound to another. It was established by X-ray analysis that there actually is a range of solid solutions in the system and that the compounds of section A have a pseudocubic structure

concentration varied from one compound to another. It was established by X-ray analysis that there actually is a range of solid solutions in the system and that the compounds of section A have a pseudocubic structure under only slight additions, while those relative to B are tetragonal (at room temperature). The lattice parameters of different compositions are given. Fig. 2 shows £(t) and Fig. 3 shows £ and tan & as functions of temperature t for compounds of section A and section B for different "Bi_{2/3}Tio₃" additions of 1 - 3 and 0 - 40 mole. The following rules were established: 1) An increase of the "Bi_{2/3}Tio₃" content on a variation of

Card 2/4

Dielectric Properties and Structure of Solid Solutions of the PbTiO₃ - SrTiO₃ - "Bi_{2/3}TiO₃" System

S/048/60/024/011/022/036 B006/B060

the ratio of PbTiO₃ and SrTiO₃ gives rise to an increase of the lattice tetragonality, while the phase transition shifts toward higher temperatures. 2) If there is more PbTiO₃ than SrTiO₃, the seignettoelectric character of the initial substance is basically conserved under an increase of the "Bi_{2/3}TiO₃" addition. 3) If, on the contrary, SrTiO₃ prevails, the introduction of the addition will give rise both to a shift of the phase transition to higher temperatures and to an enlargement of the phase transition region; at the same time, a relaxation can be observed in the dielectric polarization. The increase of lattice tetragonality on the introduction of the addition can be explained by the high polarizability of the bismuth ion. The authors finally thank G. A. Smolenskiy for having proposed the subject and for his supervision, as well as I. Ye. Myl'nikova for advice given in regard of the preparation of specimens. There are 3 figures and 6 references: 5 Soviet and 1 Japanese.

Card 3/4

Dielectric Properties and Structure of Solid Solutions of the PbTiO₃ - SrTiO₃ - "Bi_{2/3}TiO₃" System

S/048/60/024/011/022/036 B006/B060

ASSOCIATION: Latviyskiy gos. universitet im. Petra Stuchki (Latvian State University imeni Petr Stuchki). Rizhskiy politekhnicheskiy institut (Riga Polytechnic Institute)

V

Card 4/4

s/058/63/000/002/042/070 A062/A101

Freydenfeld, E. Zh., Fritsberg, V. Ya., Kruchan, Ya. Ya. AUTHORS:

Dielectric properties and structure of solid solutions in the TITLE:

CaTiO3 - Bi2/3 TiO3 system

Referativnyy zhurmal, Fizika, no. 2, 1963, 64, abstract 2E420 ("Uch. zap. Rizhsk. politekhn. in-t", 1962, v. 6, 251 - 255) PERIODICAL:

The existence of solid solutions was observed in the CaTiO 3 - B2/3TiO system for a content of Bi 2/3 TiO 3 up to 25 - 30 mol%. In the indicated ceramic solu TEXT: id solutions, the water absorption, the lattice constant, the roentgenographic den sity, the microhardness and the dielectric properties were investigated. It is shown that at room temperature the crystal lattice is cubic, and that the lattice constant increases with the increase of the content of Bi 2/3 TiO 3. The dielectric permittivity & of the solid solutions increases as the content of the second component increases (from 150 to 220), and also as the temperature decreases. No maximum of & and no hysteresis loops were observed down to the temperature of liquid air (the ferroelectric phase transition is possible at lower temperatures). Card 1/2

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CIA-RDP86-00513R000826710011-5

Dielectric properties and structure of...

\$/058/63/000/002/042/070 A062/A101

Relaxation phenomena were not observed in the frequency range from 200 cps to 200 kc and at temperatures from -170 to $+150\,^{\circ}\text{C}$.

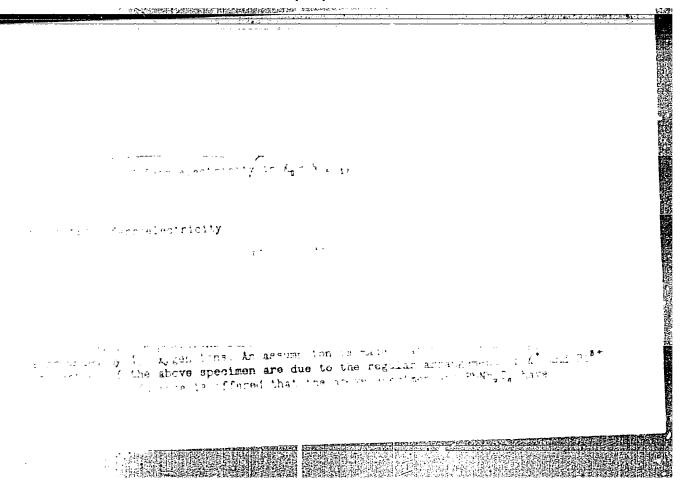
V. Petrov

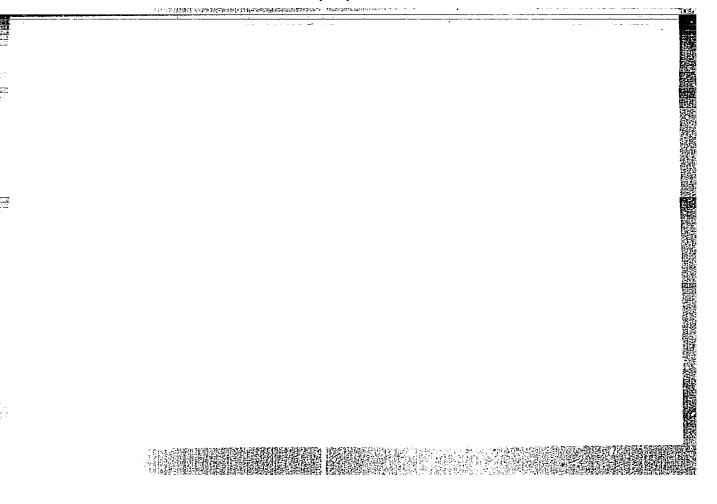
[Abstracter's note: Complete translation]

Card 2/2

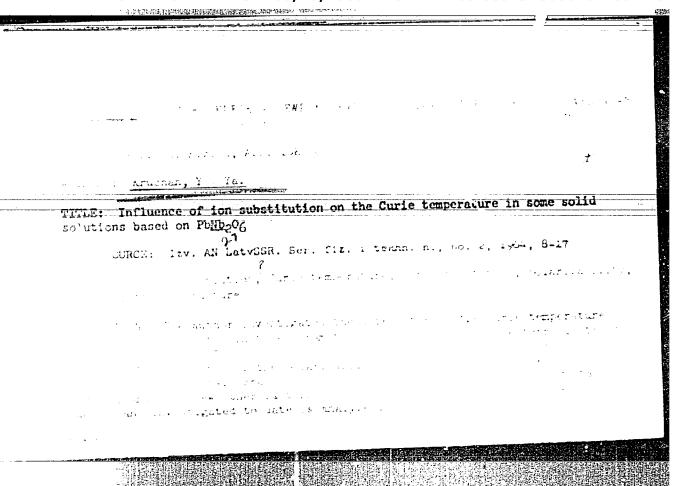
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Card 2/2

ACCESSION NR: AP4030645

5/0048/64/028/004/0691/0694

AUTHOR: Kruchan, Ya.Ya.

TITLE: Some factors capable of influencing the Curie point of ferroelectric materials with the structure of potassium-tungsten bronze Report, Symposium on Ferromagnetism and Ferroelectricity held in Leningrad 30 May to 5 Jun 19637

SOURCE: AN SSSR. Izv. Ser.fiz., v.28, no.4, 1964, 691-694

TOPIC TAGS: ferroelectricity, potassium tungsten bronze, lead metaniobate

ADSTRACT: The values of the Curie point, the radius and the polarizability of the substituted ion, and the lattice constants are tabulated for solid solutions of 21 different materials in $PbNb_2O_6$. The data for five of the solutions were obtained by the author, and the rest were assembled from various sources. Except in one case, the tabulated data relate to solutions with a concentration of 90% PbNb206. The materials discussed can all be represented by the general formula $Pb_{1-x}\Lambda_y(Nb_{1-x}U_x)_2O_6$. There are two types of A sites: those in the perovskite type regions of the lattice, having coordination number 8 (A8 sites), and those between these regions, having coordination number 10 (A10 sites). There are two A8 sites and four A10 sites in the

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ACCESSION NR: AP4030G45

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unit cell of PbNb206, of which only five are occupied (by lead ions). The quantity y-x in the general formula for the solutions investigated characterizes the degree to which the A sites are filled. The tabulated data are discussed with a view to ascertaining what factors influence the ferroelectricity of materials having the potassium-tungsten bronze structured and the following conclusions are reached: 1) A necessary condition for the appearance of spontaneous polarization due to monoclinic distortion of the unit cell is a well developed covalent bond between the oxygen ions and the ions on the AS sites. 2) The ferroelectric phenomena occur in the perovskite type regions of the lattice, and the ions outside these regions are of little importance. 3) The Curie temperature increases with increasing charge and polarizability of the B ions, provided these are not tightly held in the oxygen octahedra. Orig.art.has: 1 table.

ASSOCIATION: Latviyskiy gosudarstvenny*y universitet im.P.Stuchki (Latvian State University)

SUBMITTED: 00

DATE ACQ: 30Apr64

ENCL: 00

SUB CODE: EM

NR REF SOV: 010

OTHER: 008

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710011-5"

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IJP(c) JD EWT(m)/EWP(t)/EWP(b) UR/0048/65/029/011/2046/2049 L 7836-66 SOURCE CODE: AP5028117 ACC NRI Freydenfel'd, E.Zh.; Yanson, G.D.; Kruchan, Ya. Ya. AUTHOR: ORG: Riga Polytechnic Institute (Rizhskiy politekhnicheskiy institut); Latvian State University (Latviyskiy gosudarstvennyy universitet) TITLE: Ferroelectric properties of solid solutions of bismuth and lanthanum ferrites in lead metaniobate Report, Fourth All-Union Conference on Ferroelectricity held at Rostov-on-the Don 12-16 September 19647

SOUNCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 11, 1965, 2046-2049

TOPIC TAGS: ferroelectric material, solid solution, bismuth, lanthanum, ferrite, lead, niobate, dielectric constant, dielectric loss, Curie point, lattice parameter

ABSTRACT: Continuing their earlier work on lead metaniobate based heterovalent solid solutions, the authors have investigated the ferroelectric and other properties of the $PbNb_20_6$ - $Bi_2Fe_20_6$ and $PbNb_20_6$ - $La_2Fe_20_6$ systems in order to determine the effect of replacing divalent lead by trivalent bismuth and lanthanum, and pentavalent niobium by trivalent iron on the ferroelectric Curie point and other properties of lead metaniobate and to explore the possibility of obtaining materials with peculiar dielectric and magnetic properties. The solid solutions were synthesized by solid state reaction of the oxides with double roasting in air. After a preliminary 1 hour heating at 1100° the bismuth ferrite solutions were held for 30 minutes at 1240-1270°,

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and the lanthanum ferrite solutions at 1280-1300°. X-ray studies showed that in both systems solid solutions with the potassium-tungsten bronze structure were formed only over a narrow range (up to about 10 mole %) of ferrite content. The ceramic properties were studied, the lattice parameters were measured, dilatometric measurements were made, and the temperature dependences of the dielectric constant and the dielectric loss were investigated with experimental techniques that have been described elsewhere by E.Zh.Freydenfel'd, G.D.Yanson, and O.S.Maksimova (Izv. AN LatvSSR Ser. khim., 4, 345 (1963)). Thermographic measurements with a Kurnakov pyrometer revealed the transformation of PbO from one modification to another at 280-350° and the formation of PbNb₂O₆ at 530-850°. All the investigated solid solutions were ferroelectrics; the Curio point fell rapidly in both systems with increasing ferrite content. The temperature at which the dielectric constant peaked (the Curie point) did not vary with the measuring frequency over the range from 4 to 200 kilocycle/sec. The dielectric loss remained large below the Curie point, owing to the high electric con-

SUB CODE: SS, EM

SUMM. DATE: 00/

ductivity. Orig. art. has: 4 figures and 1 table.

ORIG. REF: 008 OTH REF: 005

Card 2/2

RESYMMETERS, R. Th. [Fraidenfelds, S.]; MANSON, G.J., [June cary J.]: KRUGHAN, Ma. M.

Ferroelectric proporties of solid solutions of blength ferrites and landsamm in lead metanlobabs. Tov. AN SSSR. Ser. fiz. 29 no.11:2046-2049 N 165. (MSRA 18:11)

1. Rizhskiy politskhalisheekiy institut i tatelyikly gosto-daratvennyy universitat.

ACC NR - AP7011846

SOURCE CODE: UR/0371/66/000/006/0040/0044

AUTHOR: Riyekstin', T. P. -- Riekstinsh, T.; Medovoy, A. I.; Kruchan, Ya. -- Kruchan, J.; Borman, K. Ya.

ORG: Latvia State University im. P. Stuchka (Latviyskiy gosudarstvennyy universitet)

TITLE: Piezoelectric properties of Na sub 0.5 Bi sub 4.5 Ti sub 4 0 sub 15

SOURCE: AN LatSSR. Izvestiya. Seriya fizicheskikh i tekhnicheskikh nauk, no. 6, 1966, 40-44

TOPIC TAGS: piezoelectric property, piezoelectric ceramic, Q factor

SUB CODE: 20

ABSTRACT: A discussion of the piezoelectric properties of ceramic specimens of the ferroelectric Na_{0.5}Bi_{4.5}Ti₄O₁₅. It is shown that samples of this composition have stable piezoelectric properties over a wide temperature range. The piezoelectric properties are retained over 500°C. A calculation formula is presented for determining the difference in resonant and anti-resonant frequencies of the piezo-resonator in case of low mechanical Q-factor. These piezoceramics practically do not age. The authors thank V. Ya. Fritsberg for his interest in the work and D. A. Dzalbe for synthesizing the samples. Orig. art. has: 3 figures and 5 formulas. [JPRS: 40,450]

上。在1962年於1967年2月12日 - 1967年 -

IONESKU-STOYAN, P.; FAYT, I.; STANCHIU, N.; SAVOPOL, Ye.; KRUCHANU, I. (Bukharest)

Mechanization of some technical processes in pharmacy. Apt. delo 11 no.1:75-79 Ja-F '62. (MIRA 15:4) (PHARMACY-EQUIPMENT AND SUPPLIES)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710011-5

KRUCHEANU, Ye., Cand Tech Sci -- (diss) "Production and properties of some semiconductor compounds of the AII BVI." Moscow, 1960. 10 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Krasnoyar Inst of Non-ferrous Metals im M. I. Kalinin, Problems Laboratory -- "Pure Metals, Metallurgical Compounds, and Semiconductors"); 200 copies; price not given; (KL, 26-60, 136)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710011-5"

KRUCHEANU, Ye.; CHISTYAKOV, Yu.D.

Some characteristics of the structure of zinc selenide crystals. Kristallografiia 5 no.3:364-368 My-Je '60. (MIRA 13:8)

1. Krasnoyarskiy institut tsvetnykh metallov im. M.I.Kalinina. (Zinc selenide)

S/081/62/000/009/003/075 B177/B138

AUTHORS:

Chistyakov, Yu. D., Krucheanu, Ye.

TITLE:

The crystal structure of zinc telluride

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 9, 1962, 29, abstract 9B175 (Rev. phys. Acad. RPR, v. 61 no. 2, 1961, 211-217)

TEXT: Monocrystals of ZnTe (I) were synthesized and subjected to X-ray investigation (powder, Laue and rotation methods, λ Cu). The specimen used was the powder I, obtained either by pulverizing the direct product of the synthesis or hexagonal crystals grown from the gaseous phase. In the former case, calculation of the Debyegrams showed that the structure of I belongs to the sphalerite type with a lattice parameter of 6.089 Å. In the latter case weak reflections from the hexagonal phase were detected on the Debyegrams, having a lattice of the wirtzite type and periods: a= 4.27, c=6.99 Å. It was thus established that I is characterized by dimorphism. Consequently this compound does not form an exception to the

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S/081/62/000/009/003/075 ide B177/B138

The crystal structure of zinc telluride

general series of compounds of the type A^{II}B^{VI}. The reason for the presence of only very weak hexagonal type reflections on the Debyegrams is that pulverization of crystals of the hexagonal modification of I converts them to the cubic modification (by analogy with ZnS). It is suggested that the formation of a particular modification is determined by the method used for obtaining the crystals, in particular by the temperature at which the process occurs, and also by the purity of the constituent elements. [Abstracter's note: Complete translation.]

Card 2/2

ACCESSION NR: AP4043190

\$/0070/64/009/004/0537/0540

AUTHOR: Krucheanu, Ye.; Nikulesku, D.; Vanku, A.

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TITLE: Growth from gas phase and study of mercury selenide and telluride single crystals

SOURCE: Kristallografiya, v. 9, no. 4, 1964, 537-540

TOPIC TAGS: single crystal growth, mercury selenide crystal, mercury telluride crystal, vapor phase growth, ${\sf AIIBVI}$ compound, crystal structure, crystal habit, crystal lattice constant

ABSTRACT: Methods for growing mercury selenide (HgSa) and mercury telluride (HgTa) crystals from the gas phase have been developed, and their crystalline structure has been determined. The necessity for such a study came as a result of applications of HgTe and HgSa in various semiconductor devices and contradictory information from, the literature on their crystalline structure. Two crystal growth methods are described: 1) a dynamic one, consisting of the transport of compound vapors in a hydrogen or argon stream from the sublimation point to the crystallisation point with a temperature gradient between

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ACCESSION NR: AP4043190

the two points; and 2) a static method, consisting of the sublimation of compound vapors and their crystallization within an evacuated and sealed quarts ampul, with a 100C temperature gradient. Both methods delivered only HgSe single crystals. The HgTe crystals obtained contained Te in excess of the stoichiometric composition. All crystals were prismatic with a hexagonal cross section. Twin HgSe crystals and hollow, tubular HgSe and HgTe crystals were observed. X-ray studies indicated that all HgSe and HgTe crystals belong to the cubic system, with the sphalerite-type lattice. The lattice constants were determined. The hexagonal modification of HgSe and HgTe previously observed under high pressure is considered to be of the cinnabar-type and not of a wurtzite-type structure. The authors conclude that the general rule observed concerning the wurtzite-type lattice formation in the AIIBVI compounds is not applicable to HgSe and HgTe. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: Rumy*niys. Institut fiziki (Rumanian Institute of Physics)

Card , 2/1

KRUCHEANU, Ye.[Cruceanu, E.]; NIKULESKU, D. [Niculescu, D.]; VANKU, A. [Vancu, A.]

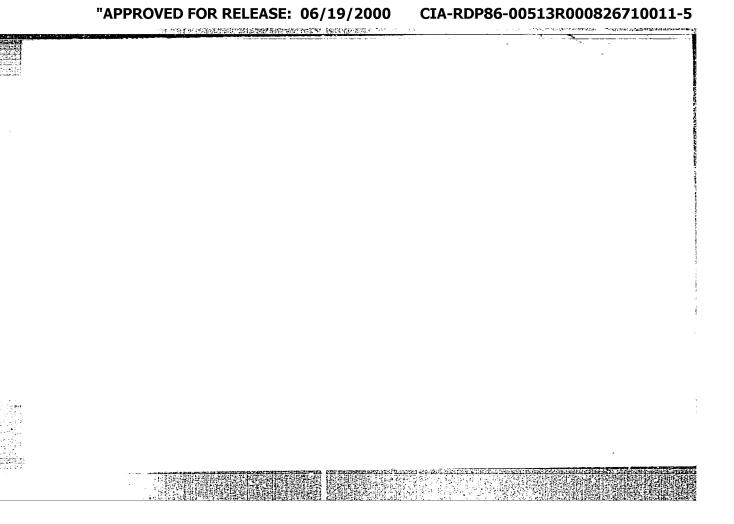
Study of mercury selenide and telluride single crystals grown from the gaseous phase. Kristallografiia 9 no.4:537-540 J1-Ag '64. (MIRA 17:11)

1. Institut fiziki, Rumyniya.

ENT(1)/ENT(m)/T/EWP(t)/EWP(b)/EWA(c)__IJP(c) UR/0181/65/007/006/1808/1812 ACCESSION NR: AP5014585 AUTHOR: Krucheanu, Ye.; Mikulesku, D.; Mistor, M.; Stamatesku, I.; Ionesku-63 B shor, 8. 44,35 411,64 44.55 8 TITLE: Some properties of HgTe single crystals grown from solutions SOURCE: Fizika tverdogo tela, v. 7, no. 6, 1965, 1808-1812 TOPIC TAGS: mercury compound, telluride, single crystal growing, crystal lattice structure, electric conductivity, Hall constant ABSTRACT: The authors describe a method never employed before of growing single crystals of HgTe from dilute solutions, simed at eliminating previously encountered difficulties with the production of single crystals of stoichiometric composition. The single crystals were obtained from solutions of 5 - 10 at . % of tellurium in mercury by very slow cooling from temperatures above 4500. Crystals up to 20 x 12 x 1 mm could be obtained by this method. The shape of the crystals depend on the cooling rate. An x-ray structural analysis has shown that the HgTe single crystals have a structure of the sphalerite type with a lattice constant a m 6.466 ± 0.002 Å, corresponding to that calculated on the basis of data on the tetrahedral radii of the Hg and To atoms. Measurements of the electric properties.

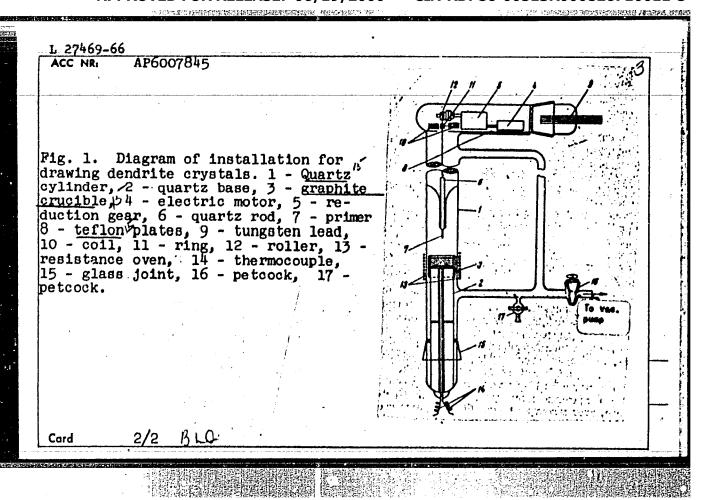
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obtained by the structuncture dependency crystals with obtain paty	that the decrease in other methods. This re of the obtained so moes of the conduct the silver, copper, as semiconductor cryster. Physics Institute	s is attribut Emplos. Heasu ivity and of nd other vari stals. Orig.	ed to the high irements were all the Hall consts. ous impurities art. has: 6 i	degree of perfections made of the temperature. Deping the HgT makes it possible trigures and I table.	n of
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L 27469-66 EWT(1)/EWP(e)/EWT(m)/EWP(j)/T/EWP(t)/EWP(k) IJP(c) JD/WW/HW/GG/ ACC NR: AP6007845 RM/WH SOURCE CODE: UR/0120/66/000/001/0213/0214
AUTHORS: Ionesku-Buzhor, S.; Krucheanu, Ye.
ORG: Institute of Physics AN RNR, Bucharest (Institut fiziki AN RNR)
TITLE: Setup for drawing dendrite grystals
SOURCE: Pribory 1 tekhnika eksperimenta, no. 1, 1966, 213-214
TOPIC TAGS: fiber crystal, dendrite, germanium, single crystal growing
ABSTRACT: Apparatus is described for drawing germanium dendrites with mirror-smooth finish, such as are needed for semiconductor devices with improved characteristics (Fig. 1). The apparatus has a different constructure and different properties than those hitherto reported in the literature. The grown dendrites are of uniform dimension and length and have a low dislocation density. The apparatus can operate at vacuum
10 ⁻⁵ 5 x 10 ⁻⁶ Torr. The germanium dendrites obtained were 2 - 8 mm thick of length constant within 0.2 - 0.8 mm. The apparatus can be used to draw dendrites of other semiconductor materials without modification. Orig. art. has: 1 figure.
SUB CODE: 20/ SUBM DATE: 29Jan65/ ORIG REF: 001/ OTH REF: 003
Card 1/2 UDC: 548.552



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SHT(1)/EHT(m)/STC(f)/SHG(m)/f/EHI(t) IJP(c) RUM/JD/JG/GG ACC NR. APOOL1473 SOURCE CODE: UR/0070/66/011/002/0305/0310 AUTHOR: Krucheanu, Ye.; Nistor, N.; Nikulesku, D. ORG: Institute of Physics of the RNR Academy, Bucharest (Institut fiziki Akademii RNR) TITIE: Growing of <u>HgSe</u> single crystals from melts and some of their properties Kristallografiva, v. 11, no. 2, 1966, 305-311 TOPIC TAGS: mercury compound, selenide, single crystal growing, crystal lattice dislocation ABSTRACT: The authors propose a new method of growing HgSe single crystals, consisting of slowly cooling from dilute solutions of selenium in mercury, with selenium concentration 4--8 at. 4 from 670c. It differs from earlier methods in the low percentage of the selenium in the melt. The procedure yielded single-crystal platelets, most frequently in rhombic or triangular form, with thickness 0.8--1 mm and length 10--15 mm. X-ray investigations have shown the most developed surfaces of these plates to be the planes with indices (111). The crystals had a low dislocation density, and had electric properties similar to those obtained by the Bridgman method. It is concluded from this similarity that no matter how the crystals are grown, they contain an excess of mercury atoms. This is in contraxt with the behavior of HgTe, whose crystals always grow with an excess of tellurium atoms. Tests with addition of silver (1% of the total selenium amount) have shown that silver is not a suitable <u>Card</u> 1/2 UDC: 548.5

40年的基本的共享的全国开始的的企业中国建筑和新疆的高级企业企业。在1995年的全国企业

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ACC NR: AP6011473

doping impurity because of its very low solubility in mercury at low temperatures. The fact that the method described makes it possible to grow crystals of sufficiently large size, with low dislocation density, and with mirror surfaces which require no polishing or etching, makes this method very promising, especially when the sensitivity of the surface of the samples to mechanical or chemical working leads to inaccurate measurements of the reflection. The possible diagram of state of such a crystal is discussed. The authors thank M. Nikulesku for help with the measurement of the electric properties of the HgSe crystals, and also I. Stamatesku and S. I. Ionescu-Buzhor for valuable discussions. Orig. art. has: 8 figures.

SUB CODE: 20/ SUBM DATE: 12May65/ ORIG REF: 001/ OTH REF: 005/

Card 2/2 /

KRUCHEK, M.P.

Method for calculating the forces of rotation of weak optically active transitions. Opt. i spektr. 17 no.4:545-550 0 164.

(MIRA 17:12)

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自1984年1月2日至1月1日日開始時代2日開發展開發展

8/051/60/009/004/008/034

E201/E191

AUTHORS: Vol'kenshteyn, M.V., and Kruchek, M.P.

TITLE: Calculation of the Optical Activity of Molecules

PERIODICAL: Optika i spektroskopiya, 1960, Vol 9, No 4, pp 467-471

TEXT: A theoretical calculation of the optical activity is illustrated in the case of 3-methylcyclopentanone. The calculation was a quantum-mechanical one and it showed that polarization interactions of constituent groups played the major role in the optical activity of molecules of 3-methylcyclopentanone type which contained one chromoform group and had no conjugated bonds. The paper is entirely theoretical. There are 2 figures and 13 references: 4 Soviet and 9 English.

SUBMITTED: February 5, 1960

Card 1/1

VCL'REBSHTEYH, M.V.; KHUCHEK, M.P.

Optical activity of amino acids. Zhur. strukt. khim. 2 no. 1:59-62 Ja-F '61. (HIRA 14:2)

1. Loningradskiy podagogichoskiy institut im. A.I. Gertsena. (Amino acids—Optical properties)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710011-5

KRUCHEK, M.P.

Comparison of the contributions of strong and weak absorption bands in the optical rotation of some alicyclic ketones. Opt. i spektr. 17 no.5:794-796 N '64. (MIRA 17:12)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710011-5"

EWT(1)/T/EWA(h) IJP(c) AT L 1071-66 UR/0058/65/000/004/E067/E067 ACCESSION NR: AR5014412 SOURCE: Ref. zh. Fizika, Abs. 4E501 AUTHOR: Adirovich, E. I.; Kruchenetskiy, O. Ye.; Kurbanov, O. N.; Lunezhev, TITLE: Using frequency-phase characteristics of impedance in the p-n junction for measuring short lifetimes 21.1% CITED SOURCE: Dokl. AN UZSSR, no. 10, 1964, 11-14 TOPIC TAGS: semiconductor diode, carrier lifetime, semiconductor research TRANSLATION: A theoretical basis and experimental proof is given for the possibility of using the phase shift between the voltage across a diode and the current through it to measure short lifetimes in semiconductors. In contrast to previously developed methods, this method does not require establishment of limiting operating conditions for the diode (conditions for the current or voltage generator). The method facilitates the measurement of lifetimes less than 10-9 sec. An experimental check of the method is made on an electrical analog of a diode. A. Stepanova ENCL: 00 SUB CODE: EC Card 1/1 DF

KRUCHENETSKIY, Ye. (Tashkent); ZAYTSEV, V., inzhener-tekhnolog (Tashkent)

Dispatcher's tags on luggago. Grazhd. av. 19 no.4:19 Ap '62.

(MIRA 15:5)

1. Zamestitel' nachal'nika otdela porevozok Grazhdanskogo
vozdushnogo flota, Tashkent (for Kruchenetskiy).

(Airplanes-eDispatching)

KRUCHENITSKIY, M.L., starshiy elektromekhanik; GUNTAREV, V.P., starshiy inzh.; LOBUR', I.G., starshiy elektromekhanik

Intercommunication system for ticket offices. Avtom. telem. i sviaz' 5 no.11:34-38 N '61. (MIRA 14:11)

1. Upravlencheskaya distantsiya signalizatsii i svyazi Yugo-Zapadnoy dorogi (for Khuchenitskiy). 2. Laboratoriya signalizatsii i svyazi Dal'nevostochnoy dorogi (for Guntarev). 3. Khabarovskaya distantsiya signalizatsii i svyazi Dal'nevostochnoy dorogi (for Lobur').

(Railroads--Communication systems)

KRUCHENOK, N.Y. (Akmolinskaya oblast')

Medial workers on virgin lnads. Med.sestra 15 no.4:18 Ap '56.
(MLRA 9:7)

1. Isaveduyshchiy Kalininskim raysdravotdelom.
(KALININ DISTRIC (AKMOLINSK PROVINCE)--MEDICIN, RURAL)

SMOLYANOV, G.A., inshener; KRUCHER, G.M.

Methods of titanium surface scouring. TSvet.met. 29 no.5:94-96 (MLBA 9:8) My 156. (Titanium--Metallurgy)

EGYNULIN. Mikolny Maumovien, knadidat teknaicheskikh nauk; KRUCHER, Gerslid Nikolavavich, inzhener; PERLIN, I.L., professor, retsenzent; RELOV, A.F., inzhener, retsenzent; SHPOLYAMSKIY, D.Ya., inzhener, retsenzent; RZHEZNIKOV, V.S., redektor; KAMAYEVA, O.M., redektor izdatelistva; VAYMENTEYN, Ye.B., tekhnicheskiy redektor

[Production of sheets and strips from light-weight alloys] Proizvodstvo listov i lent iz legkikh splavov. Moskva, Jos. nauchno-tekhn. izd-vo lit-ry po chernoi i tavetnoi metallurgii, 1957. 310 p. (HLRA 10:10)

(Holling (Hetalwork))

AUTHOR:

Krucher, G.N.

50V/136-58-9-11/21

TITLE:

Present State and Prospects for the Development of the Production Technology of Heavy Non-ferrous Metal Rolled Product (Sovremennoye sostcyaniye i perspektivy razvitiya tekhniki proizvodstva prokata Vazhelykh tsvetnykh

metallov)

PERTODICAL: Tavetnyye Metally, 1958, Nr 9, pp 53-58 (USSR)

ABSTRACT: The author describes the plants recently built in the USSR for flat rolling non-ferrous heavy metals. They are designed to deal with ingots weighing up to 1 ton at rolling speeds over 200 m/minute and are highly mechanized.

He states that all new rolling mills being planned for the USSR are to be based on semi-continuous or continuous casting. Billets are heated in continuous oil or gasfired furnaces; at one Soviet works an induction heater has been designed and the author recommends this for general adoption. At new Soviet works the hot rolling

of copper alloys is to be based on highly mechanized reversing mills with an edging stoud. In cold rolling the

tendency is to deal with heavier (2-10 ton) coils by

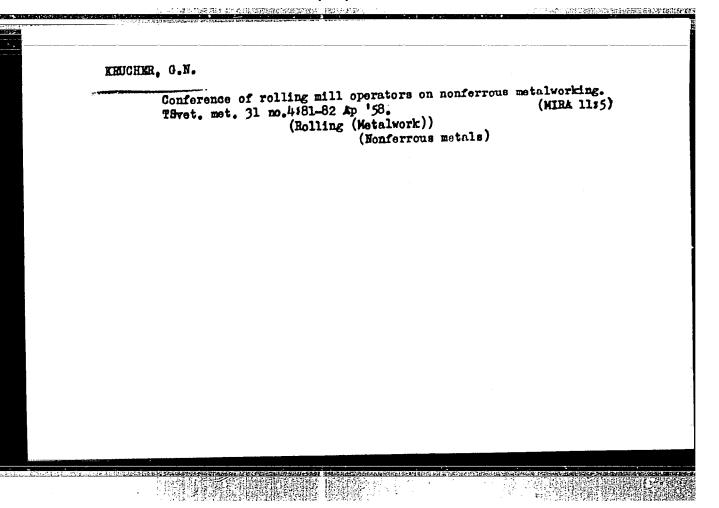
Unr 11/2

Prepent State and Prospects for the Development of the Production Technology of Heavy Non-ferrous Metal Rolled Product

using butt welding and a series of new mills was designed and is being built in the USSR: the author tabulates their main characteristics, discusses their special features (including higher relling speeds) and considers the corresponding re-heating furnaces. He mentions that work aimed at the replacement of visual inspection of sheet by automatic and remote methods based on ultrasonics, flying micrometers and television is in progress; mechanization of intra-mill transport is also under study. For most of his points in this article the author gives comparative information on American, and sometimes on European practice. There is I table.

Card 2/2

- 1. Metals--Production 2. Rolling mills--Performance
- 3. Industrial engineering



序数 "阿罗·马斯斯斯斯斯斯斯斯斯斯斯斯特特克"。2010年19月2

\$/136/60/000/012/008/010 E193/E183

AUTHORS: Boguslavskiy, I.M., Broydo, B.S., Krucher, G.N., and

Tarshinov, V.I.

Complex Investigation of a 3-Stand Tandem Mill for Continuous Cold Rolling of Copper Alloy Strip TITLE:

PERIODICAL: Tsvetnyye metally, 1960, No. 12, pp. 66-74

In contrast to rolling of steel, continuous rolling of TEXT: copper-base alloys in a tandem mill is a comparatively recent innovation. Difficulties are still encountered in running this process because of a large number of interdependent factors which have to be controlled if satisfactory results are to be obtained. The object of the investigation described in the present paper was to establish the optimum operating conditions for continuous rolling of brass $\Lambda62$ (L62) and $\Lambda90$ (L90) strip, and to obtain data required for complete automation of the process. experimental work was carried out on a 3-stand tandem mill, manufactured at the Novo-Kramatorskiy mashinostroitel nyy zavod (Novo-Kramatorsk Machine-Building Plant). Each stand consisted of a 4-high mill with the following characteristics: Card 1/4

्रा । तम् १ । अस्य स्वर्षेत्रप्रात्मकः अस्यक्षित्वस्य सम्बद्धाः स्वर्णातः । अस्यर

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diameter of the working and backing rolls - 375 and 1000 mm respectively; length of the rolls - 1000 mm; diameter of the power-driven reeler - 500 mm. Each stand was driven by a motor NBK 90/40 (PVK90/40), 450 kW, 300-600 r.p.m., an MN 14-14/3 (MP14-14/3), 150 kW, 400-1300 r.p.m. motor being used to drive the reeler. Rolling speeds of up to 150 m/sec were employed, the initial and the final thickness of the strip (400-800 mm wide) was 6 and 1 mm respectively. The following parameters of the process were studied: thickness of the strip leaving the 3-rd stand; pressure exerted by the mill on the rolls of each stand; tension in the strip between the stands and between the reeler and the 3-rd stand; speed of the rolls and speed of the inter-stand tensioning rollers; current in the circuit of the motors driving the rolls; voltage in the generator. A quantitative relationship between the tension in the strip and its thickness was established. It was found that the increase in thickness of the leading and tail ends of the strip Card 2/4

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(which are rolled with no tension applied) can be avoided by reducing the distance between rolls by 0.2-0.3 mm during the corresponding stage. It was shown, also, that by varying the tension in the strip between the 2-nd and 3-rd stands, it is possible, in the case of brass L62, to adjust its thickness by 0.2-0.3 mm during the first rolling stage and by 0.1-0.15 mm during the second rolling stage. The results obtained indicate that by increasing the front and back tension in the strip, edge cracking can be avoided, or minimized. The specific power consumption in rolling brass L62 and L90 was determined, and curves were constructed illustrating the elastic formation of the rolls and plastic deformation of brass strip in the course of the process studied.

Acknowledgements are made to S. Alimov, Yu. Reyngol'd, and Yu. Uzenev, who participated in this work.

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There are 7 figures, 3 tables and 5 references: $^{1}+$ Soviet and 1 English.

Card 4/4

SMIRYAGIN, A.P., kand. tekhn. nauk; DNESTROVSKIY, N.Z., inzh.; LANDIKHOV, A.D., inzh.; KREYNDLIN, N.N., kand. tekhn.nauk; KRUCHER, G.N., inzh.; GOLOVIN, V.A., kand. tekhn.nauk; URIN, B.L., inzh.; GOL'DREYER, V.N., inzh.; MILLER, L.Ye., kand. tekhn.nauk, red.; MISHARINA, K.D., red. izd-va; ATTAPOVICH, M.K., tekhn. red.

[Handbook on the working of nonferrous metals and alloys]
Sprayochnik po obrabotke tsvetnykh metallov i splayov. Pod
red. L.E.Millera. Moskva, Gos. nauchmo-tekhm. izd-vo lit-ry po
chernoi i tsvetnoi metallurgii, 1961. 872 p. (MIRA 14:5)

(Nonferrous metals--Handbooks, manuals, etc.)

(Metalwork--Handbooks, manuals, etc.)

KRUCHER, G.N., UZEMEV, Yu.K., Prinimal uchastiye: HEYMGOL'D, O.Ya., laborant

Investigating the widening of brass during hot rolling. Trudy Giprotsvetmetohrabotka no.20:200-207 '61. (MIRA 15:2) (Brass) (Rolling (Metalwork))

S/680/61/000/020/010/013 D205/D302

AUTHORS: Krucher, G. N. and Uzenev, Yu. K.

TITLE: Revealing productivity reserves of the three-cage cold-

rolling mill tandem 1000

SOURCE: Moscow. Gosudarstvenny nauchno-issledovatel*skiy i proyektnyy institut obrabotki tsvetnykh metallov. Sbornik

nauchnykh trudov. no. 20, 1961. Metallovedeniye i obra-

botka tsvetnykh metallov i splavov, 208-217

TEXT: Two inter-cage cold-rolling mills, tandem quarto 3750/1000 x 1000 mm, were put into industrial exploitation for the cold-rolling of copper and its alloys, in 1956 and 1958. The institute "Giprotsvetmetobrabotka" has for several years cooperated with the plants concerned in the establishing and perfectioning of the working regimes. A series of time-motion studies has been performed, and as the result of the recommendations plant B mill has raised its productivity more than 3-fold between 1956 and 1960, producing at present 3 times as much as the plant A mill. Nevertheless, ample pro-

Card 1/2

Revealing productivity reserves ...

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ductivity reserves are still thought to exist. The present paper indicates the measures for revealing these reserves. The measures to be taken can be summarized as follows: Increasing the weight of the feed rolls up to 4 tons will double the productivity of the mill; improving the quality of the feed rolls by reducing the deviations from the standard dimensions; increasing the amount of the cooling emulsion 2 times; changing the winding drum to a stronger than the present one; reconstructing the conical unwinders and the feeding table before the first cage; automating the thickness regulation. All these measures will bring the non-ferrous metals cold-rolling mill to the productivity level of the ferrous metallurgy mills. There are 5 tables and 3 Soviet-bloc references.

Card 2/2

KRUCHER, G.N., referent

Mamufacture of semifinished products from high-purity [from "Metallurgical Reviews," no.16, 1959]. TSvet, met. 34 no.2: (MIRA 14:6)

KREYNDLIN, Nikolay Naumovich; MILLER, L.Ye., kand.tekhn. nauk, retsenzent; KRUCHER, G.N., red.; MISHARINA, K.D., red. izd-va; MIKHAYLOVA, V.V., tekhn. red.

[Calculating on reductions during the rolling of nonferrous metals] Raschet obshatii pri prokatke tsvetnykh metallov. Izd.2., perer. i dop. Moskva, Metallurgizdat, 1963. 407 p. (MIRA 16:5) (Rolling (Metalwork)) (Nonferrous metals)

SHEVAKIN, Yuriy Fedorovich; RYTIKOV, Aleksandr Mikhaylovich; SEYDALIYEV, Fikrat Seydali-ogly; KRUCHER, G.N., red.; MISHARINA, K.D., red.izd-va; ISLENT'YEVA, P.G., tekhn.red.

"工作的是国际运动部队的国际组织重要的联系是是一种多数企业。"

[Production of nonferrous metal pipes; technological calculations] Proizvodstvo trub iz tsvetnykh metallov; tekhnologicheskie raschety. Moskva, Metallurgizdat, 1963. 355 p. (MIRA 16:10)

(Pipe mills) (Nonferrous metals)

STANCHIU, N. [Stancin, N.]; KRUCHIANU, I.; SAVOPOL, Ye.

Milling apparatus for drugstores. Apt. delo 10 no. 1:85-88
Ja-F '61. (MIRA 14:2)

KRUCHIN, A.N., elektromekhanik

Graphite lubricant protects from hoar-frost. Avtom., telem. i sviaz' 8 no.10:37 0 '64. (MIRA 17:11)

1. Abdulinskaya distantsiya Kuybyshevskoy dorogi.